al Number:	CRIPTOR'S Corrected by the STIC	CRF Processing Date: 12 60
	file from non-ASCII to ASCII	Edited by: Verified by: (STIC s
Changed th	e margins in cases where the sequence text was	"wrapped" down to the next line.
Edited a for	mat error in the Current Application Data section,	specifically ENTERED
Edited the Capplicant wa	Current Application Data section with the actual cuase. The prior application data; or other	urrent number. The number inputted by the
Added the m	nandatory heading and subheadings for *Current.	Application Data*.
Edited the *N	Number of Sequences* field. The applicant spelle	ed out a number instead of using an integer.
Changed the	spelling of a mandatory field (the headings or su	ubheadings), specifically:
Corrected the	SEQ ID NO when obviously incorrect. The sequ	uence numbers that were edited were:
Inserted or co	prrected a nucleic number at the end of a nucleic	line. SEQ ID NO's edited:
Corrected sub applicant place	pheading placement. All responses must be on the day a response below the subheading, this was m	he same line as each subheading. If the noved to its appropriate place.
	ns after headings/subheadings. Headings edited	included:
Deleted extra	, inválid, headings used by an applicant, specifica	
Deletod: p	non-ASCII "garbage" at the beginning/end of files mbers throughout text;	s: Secretary initials/filename at end of file
Inserted man	datory headings, specifically:	
	obvious error in the response, specifically:	
Ediled identifi	ers where upper case is used but lower case is re	equired, or vice versa.
Corrected an	error in the Number of Sequences field, specifica	ılly:
A *Hard Page	Break* code was inserted by the applicant. All o	ccurrences had to be deleted.
Deleted <i>ending</i> due to a Patent	r stop codon in amino acid sequences and adjus In bug). Sequences corrected:	ted the *(A)Length:* field accordingly (error
Other:		

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

OIPE

RAW SEQUENCE LISTING DATE: 12/06/2001 PATENT APPLICATION: US/09/993,241 TIME: 15:50:23

Input Set : D:\008000051CNUS01.txt Output Set: N:\CRF3\12062001\I993241.raw

Does Not Comply Corrected Diskette Needed

4 <110> APPLICANT: KAKKIS, EMIL D.

6 <120> TITLE OF INVENTION: METHODS FOR TREATING DISEASES CAUSED BY DEFICIENCIES OF

RECOMBINANT ALPHA-L-IDURONDINASE

9 <130> FILE REFERENCE: 008000051CNUS01

C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/993,241

12 <141> CURRENT FILING DATE: 2001-11-13

14 <150> PRIOR APPLICATION NUMBER: 09/711,205

15 <151> PRIOR FILING DATE: 2000-11-09

17 <150> PRIOR APPLICATION NUMBER: 09/439,923

18 <151> PRIOR FILING DATE: 1999-11-12

20 <160> NUMBER OF SEQ ID NOS: 2

22 <170> SOFTWARE: FastSEQ for Windows Version 3.0

ERRORED SEQUENCES

- 273 <210> SEQ ID NO: 2
- 274 <211> LENGTH: 650
- 275 <212> TYPE: PRT
- 276 <213> ORGANISM: Homo sapiens
- 278 <400> SEQUENCE: 2
- 279 Met Arg Pro Leu Arg Pro Arg Ala Ala Leu Leu Ala Leu Leu Ala Ser 280
- 5 281
- Leu Leu Ala Ala Pro Pro Val Ala Pro Ala Glu Ala Pro His Leu Val 282
- 283
- His Val Asp Ala Ala Arg Ala Leu Trp Pro Leu Arg Arg Phe Trp Arg 284 40
- Ser Thr Gly Phe Cys Pro Pro Leu Pro His Ser Gln Ala Asp Gln Tyr 285
- 286 287
- Val Leu Ser Trp Asp Gln Gln Leu Asn Leu Ala Tyr Val Gly Ala Val 288 70
- 75 Pro His Arg Gly Ile Lys Gln Val Arg Thr His Trp Leu Leu Glu Leu 289
- 290 90 291
- Val Thr Thr Arg Gly Ser Thr Gly Arg Gly Leu Ser Tyr Asn Phe Thr 292 100 105
- 293 His Leu Asp Gly Tyr Leu Asp Leu Leu Arg Glu Asn Gln Leu Gly Phe 294
- 120 295 Glu Leu Met Gly Ser Ala Ser Gly His Phe Thr Asp Phe Glu Asp Lys
- 296 135 297
- Gln Gln Val Phe Glu Trp Lys Asp Leu Val Ser Ser Leu Ala Arg Arg 298
- 150 155 299
- Tyr Ile Gly Arg Tyr Gly Leu Ala His Val Ser Lys Trp Asn Phe Glu 300 165 170
- Thr Trp Asn Glu Pro Asp His His Asp Phe Asp Asn Val Ser Met Thr 301 302 180 185
- Met Gln Gly Phe Leu Asn Tyr Tyr Asp Ala Cys Ser Glu Gly Leu Arg 303 304 195 200

RAW SEQUENCE LISTING

DATE: 12/06/2001 PATENT APPLICATION: US/09/993,241 TIME: 15:50:23

Input Set : D:\008000051CNUS01.txt

Output Set: N:\CRF3\12062001\1993241.raw

305 306	Al	a Al 21	a Se O	r Pr	o Ala	a Lei	u Ar	g Lei	u Gl	y Gl	y Pro	o Gl;		e Sei	r Ph	e His
307 308	Th 22	r Pr 5	o Pr	o Ar	g Se:	r Pro	o Lei		r Tr	p Gl	y Lei 23!	ı Le	u Ar	g His	в Су	s His
309 310	As	p Gl	y Th	r Ası	n Phe 24!	e Phe	e Thi	r Gly	y Gl	u Al 25	a Gly	y Vai	l Ar	J Lei		240 Tyr
311 312	Il	e Se	r Le	u His 260	s Ar		s Gly	y Ala	a Arg	g Se	r Sei	: Ile	e Sei	r Ile 270		ı Glu
313 314	Gl	n Gl	u Lys 27!	s Val	l Val	l Ala	a Glr	n Glr 28(ılı		g Glr	ı Leı	ı Phe 285	Pro	, Lys	s Phe
315 316	Ala	a Ası 290	o Thi	r Pro	o Ile	Э Туг	Asr 295	n Asp	Glu	ı Ala	a Asp	Pro 300	Let	Val	. Gly	Trp
317 318	Se:	r Lei	ı Pro	o Glr	n Pro	Trp 310	Arg	g Ala	a Asp	Va.	l Thr 315	Туз	Ala	Ala	Met	: Val 320
319 320	Va]	l Lys	s Val	l Il∈	Ala 325	Gln	His	Gln	Asr	Lei 33(ı Leu	Leu	ı Ala	Asn	Thr 335	Thr
321 322	Sei	Ala	Ph∈	Pro 340	Tyr	Ala	Leu	ı Leu	Ser 345	Ası	Asp	Asn	Ala	Phe	Leu	Ser
323 324			300)				360	Arg	Thi			365	Arg	Phe	Gln
325 326		3/6	,				375					380	Arg	Lys		Val
327 328	207	Į)				390					395	Glu	Glu			Trp
329 330					405					410			Asn	His	415	Val
331 332				420					425					430	Ala	Trp
333 334			435					440					Arg 445	Ala		
335 336		450					455					460	Val			
337 338	400					4/0					475		Gly			480
339 340					485					490			Phe		495	Ala
341 342				500					505				Ala	510		
343 344			272					520					Pro 525			
345 346		330					535					540	Pro			
347 348	J43					550					555		Thr			560
349 350					202					570			Lys		575	Trp
351 352				580					585				Tyr	590	Pro	
353	ser	Arg	Lys	Pro	Ser	Thr	Phe	Asn	Leu	Phe	Val	Phe	Ser	Pro	Asp	Thr

RAW SEQUENCE LISTING

DATE: 12/06/2001

PATENT APPLICATION: US/09/993,241 TIME: 15:50:23

Input Set : $D:\008000051CNUSO1.txt$

Output Set: N:\CRF3\12062001\1993241.raw

	354			595					600					605			
	355	Gly	Ala	Val	Ser	Gly	Ser	Tyr	Arq	Val	Ara	Ala	Leu	Asp	Tvr	Trn	Δla
	356		610			_		615	_				620	op	- 1 -	112	AIU
	357	Arg	Pro	Gly	Pro	Phe	Ser	Asp	Pro	Va 1	Pro	Tur		Glu	Val	Dro	17-1
	358	625		_			630				110	635	пси	GIU	Val	PIO	
	359	Pro	Arq	Gly	Pro	Pro	Ser	Pro	Glv	Δcn	Dro						640
	360		-	-		645			OL,	11511	650						
E>	361	1				- 10					0.50						

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/993,241

DATE: 12/06/2001 TIME: 15:50:24

Input Set : D:\008000051CNUS01.txt

Output Set: N:\CRF3\12062001\I993241.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:361 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2